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NOTICE OF ALLOWANCE AND FEE(S) DUE

52349

7590

07/23/2009

WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 400 East Washington, DC 20005-1503

EXAMINER				
PARDO, THUY N				
ART UNIT PAPER NUMBER				
2627				

DATE MAILED: 07/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,995	05/24/2006	Tatsuo Itoh	2006-0786A	I507

TITLE OF INVENTION: CONFOCAL OPTICAL SYSTEM APERTURE POSITION DETECTOR, CONFOCAL OPTICAL SYSTEM APERATURE POSITION CONTROLLER, OPTICAL HEAD, OPTICAL INFORMATION PROCESSOR, AND CONFOCAL OPTICAL SYSTEM APERTURE POSITION DETECTING METHOD

١	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
•	nonprovisional	NO	\$1510	\$300	\$0	\$1810	I0/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further on ndicated unless correcte naintenance fee notificat	ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification a) specifying a new c	of m orresp	aintenance fees wi condence address;	ill be a and/or	mailed to the current (b) indicating a sepa	correspond rate "FEE	lence address as ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
52349	7590 07/23				Cert	ificate	of Mailing or Transı	nission	
WENDEROTH 1030 15th Street Suite 400 East	I, LIND & PONA , N.W.	CK L.L.P.		I her State addre trans	eby certify that this s Postal Service wi essed to the Mail mitted to the USPT	s Fee(s ith suf Stop O (57	s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	deposited t class mai above, or tte indicate	with the United I in an envelope being facsimile ed below.
Washington, DC	20005-1503								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO]	RNEY DOCKET NO.	CONFIRM	MATION NO.
10/595,995	05/24/2006	•	Tatsuo Itoh				2006-0786A		1507
	LER, OPTICAL HEAD	CAL SYSTEM APERTU D, OPTICAL INFORM							
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	D.	ATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	10	0/23/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	3					
PARDO,	THUY N	2627	369-100000	·					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(I) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
PLEASE NOTE: Unli recordation as set forth (A) NAME OF ASSIG	ess an assignee is identi n in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON The street of the second of this form is NO categories (will not be presented in the second of	data will appear on t T a substitute for filin (B) RESIDENCE: (C	he pa g an a CITY	tent. If an assigne ssignment. and STATE OR CO	OUNT	RY)		
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a. The following fee(s) a lssue Fee	are submitted:	4t	o. Payment of Fee(s): (A check is enclose		se first reapply an	y prev	iously paid issue fee s	hown abo	ve)
Publication Fee (No small entity discount permitted)		Payment by credit card. Form PTO-2038 is attached.							
Advance Order - #	of Copies		The Director is he overpayment, to I	ereby Depos	authorized to charg it Account Number	ge the r	required fee(s), any det (enclose ar	iciency, or extra cop	credit any y of this form).
a. Applicant claims	t us (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.		_			F1TY status. See 37 CF		<u> </u>
OTE: The Issue Fee and terest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan th	e applicant; a regis	tered a	nttorney or agent; or th	e assignee	or other party in
Authorized Signature					Date				
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n application. Confident abmitting the completed us form and/or suggesti	iality is governed by 35 I application form to the ons for reducing this bui irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (1.14. This collection is depending upon the is Chief Information C	is esti indivi Office	mated to take 12 m dual case. Any cor - ILS Patent a n d 1	ninutes nment Tradem	to complete, including s on the amount of time park Office, U.S. Depa	g gathering ne you requ rtment of (g, preparing, and uire to complete Commerce, P.O.

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10/595,995	05/24/2006	Tatsuo Itoh	2006-0786A	1507	
52349 75	590 07/23/2009		EXAM	IINER	
WENDEROTH,	LIND & PONACK I	PARDO, THUY N			
1030 15th Street, N	I.W.		ART UNIT	PAPER NUMBER	
Suite 400 East Washington, DC 2	0005-1503		2627 DATE MAILED; 07/23/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 455 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 455 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
A	10/595,995	ITOH ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Thuy N. Pardo	2627		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS		
1. \boxtimes This communication is responsive to <u>Amendment filed May</u>	<u>/ 28, 2009</u> .			
2. The allowed claim(s) is/are 20-38, now renumbered 1-19.				
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements		
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.			
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat	(PTO-413), e		
 Information Disclosure Statements (PTO/SB/08),	7.	nent/Comment ent of Reasons for Allowance		
/Thuy N. Pardo/ Primary Examiner, Art Unit 2627				

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DETAILED ACTION

1. Applicant's Amendment filed on May 28, 2009 in response to Examiner's Office Action has been reviewed. Claims 20-38 are pending in the application. Claims 20-38 are amended, and claims 1-19 are canceled.

Allowable Subject Matter

2. Claims 20-38 are allowed.

The following is an Examiner's Statement of Reasons for Allowance:

The prior art of record fails to teach or suggest individually or in combination the detector measures a light quantity balance of the light received at the plurality of light reception regions to detect a position displacement between the light focused at the focusing point position by the second focusing means and the aperture as set forth in independent claims 20, 25, 28, 29, 34, 35, 37 and 38.

Dependent claims 20-24, 26, 27, 30-33 and 36 being further limiting to the independent claims 20, 25 and 29 respectively, definite and enable by the Specification are also allowed.

The closet prior art, Takahashi US Patent No. 5,748,601 teaches a improved resolution in the direction of depth of focus without reducing beam spot diameter. The closest prior art fails to anticipate or render Applicant's limitations above obvious.

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Art Unit: 2627

3. Any comments considered necessary by applicant must be submitted no later than the

payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue

Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thuy N. Pardo whose telephone number is 571-272-4082. The

examiner can normally be reached on Mon-Thur.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wayne Young can be reached on 571-272-7582. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thuy N. Pardo/

Primary Examiner, Art Unit 2627